Applicant(s): Mark A. Sheridan et al. Serial No.: 09/727,739 Filed: Dec

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86 SS-14-II Preprosomatostatin II" SS-25-II SS II" mRNA œ Ŝ 8 SS-14-II RK YG Preprosomatostatin II' SS-28-II SS II' mRNA  $\alpha$ + -24 H<sub>3</sub>N-\_ Ω 89 SS-14 RK YG Preprosomatostatin I **SS-26** SS I mRNA æ

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81	152	214-67	272 -46	340 -25	403 4 -	466	549 632 715
	r Grc cag rgc gcc cra gca cra crc 152 y Val Gln Cys Ala Leu Ala Leu Leu -88	3 TCC GAT GCC AAA CTC CGC CAG CTG 214 3 Ser Asp Ala Lys Leu Arg Gln Leu -67	9 CTT GCC AGG AAT ACA CTC GTA GAG 272 1 Leu Ala Arg Asn Thr Leu Val Glu -46	GAA TTG GAT GAC ATG TCT CAT GGC 340 Glu Leu Asp Asp Met Ser His Gly -25	A CCC GGC CCA GTA CTG GCT CCA CGT 403 a Pro Gly Pro Val Leu Ala Pro Arg -4	TTT ACA TCG TGT TAA TGAATCTACTC 466	GAATCCAATGCACCATGGCCTAACCCTCCTCT 549 FTCTATCGCTCACTTAGATTTTTTTTCCGAAAAG 632 AATTTATGTATTTTGGCAGACTATTTTTTAATTG 715
3 GGGGGGGGGGGAACAGAACTCAAAGAGAACTCAAATCTCAACGATTGTCTGCCCAATTGAACCTTTATCC	ATCCTCTCCCCCGAGACCCCAGAAGAAG ATG CTC TCG ACG CGT SEQ ID NO: 3 Met Leu Ser Thr Arg	TCC CTA GCC CTG GCC ATC AGC AGC GTC TCT GCC GCT CCG Ser Leu Ala Leu Ala Ile Ser Ser Val Ser Ala Ala Pro	CTC CAA CGG TCA CTC ATG GCA CCT GCA GGC AAA CAG GAG Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu	CTA CTC TCA GAG CTC GCA CAT GTA GAG AAC GAG GCG ATT Leu Leu Ser Glu Leu Ala His Val Glu Asn Glu Ala Ile	GTG GAG CAG GAT GTG GAT CTC GAG CTG GAG CGT GCA Val Glu Glu Asp Val Asp Leu Glu Leu Glu Arg Ala	<pre>daa cgc aag gcr gga rgc.aag aac rrc rrc rgg aag acc glu arg Lys ala gly cys Lys asn phe phe Trp Lys Thr</pre>	CTTTACTGIGIGITACACATCTCTCTTTTGTTTCAATCACTCATTGCTGAATCCAATGCACCATGGCCTAACCCTCCTCT 549 TCAAAAATTTAAATAATATAAAACCTGTTATAACTTTTAACAATCATTCTGATGTTTTCTATCGCTCACTTAGATTTTTTTCGAAAAGGAAAAGAAAG
$\infty$							

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 $\omega$ N O ω 4  $\sigma$ 6 **7**2 4  $^{\mathsf{m}}$  $\alpha \alpha$ 1 1 1 1 1 1 96/ 4/5/ 5/8 0,4 ကळे 58, 50, 0 7 13 **S S** 5 00 υ 7 53 7 7 20  $\omega$ m4 4 gcca CTG AGG AGG \* \* DDT  $\operatorname{Trp}$ Glu GAG \*\*\* GGC GGC Gly taaaccgaccacctt aagcctgaccacctt GC(A tg tg gaaatcaacagaatgatgtacctgtctaatttgtga<u>aataa</u>aagatataaaataattg (a) n attatgatgtacctgactaatttagaaataagagagaaa<u>taa</u>aagagaaac (a) n aatcacgtcacaccgccaacttacacctgacgaatgcagccaatcaacagttagctgi aatcacatcacaccgccaaccttcatctgactaatgtagccaatcagcaattagctgi icegegte icegtgte CTG Leu GAC Asp CAC His AGG Val GTG \*\*\* \* \* ↓ GCC GCT Ala Pro GCA CCA CCA Pro CTG Leu Arg CGT \*\*\* o AAA Lys AAA Al \*\*\*\*  $_{\mathrm{IGI}}$ TGT Cys CAG TTGTGC Leu Leu CTG CGC CY yctcagctegt ycttagctc\*\* gggaagaate gggaagaaae CAC TCG TCG Ser Ø GCA Ala CCT ProGAC Asp GAG Glu GAG Hi ATC ATC GCC GCC Ala GCT Ala TGT GAG CGC Arg Glu I accgactgatccagatcgagcatagcccggtccago Arg CGA 300 300 300 CAA Gln GCC AAC AAC Asn AAA Lys CCC Pro CCC tga taa ### Al Cys TGC TCC GGA GGA GlyArg CTG CCC Leu Pro GCT GCC Ala CCC Pro CCC  $_{\rm IGC}$ GTC Val CAA Gln GCC Ala GCT TAT TAT GLY GGG AAG LYS  $\mathbf{T}\mathbf{y}\mathbf{r}$ CTT TCC Ser Lys AAG AGG Arg AGC Ser AGG AGG Arg TTCCIG Ala GCG Phe Leu AAC AAC Asn ACT ACT Thr H PPSS. ATG ATG Met IGC TGC CAG Cys Gln ACA ACA CAG AAC \*\*\* TTC TTC Phe Asn cccagctctgttggag ctcagctctgttggag ATT ATT Ile CTT Leu AGG AGG Pro CCC \*\*\* Arg and CCA CAA Pro GGC GGA GlyŊ GCC GCA Ala Leu CTCTGG TGG TrpNO:  $\mathrm{TGT}$ GGT Asn AAC LysCys AAG NO ΙI-\* CTG AGA CGA Arg CGG Arg AAG AAG Gly GGC GAC Asp TGG TGG PPSS. GCC GCC Ala CGC CGC Arg GAG GAG Glu GTG GTG Val GTG GTG Val TAC TAC TYr AGC CIG Leu accaggcctgctcca accaggcctgctcca tccctgcaaacaaaa tccctgcaaacccaa AGC Ser AGC atgacatgacgctgcc atgacacaatgcattc cccgatgatggttctt AGC Ser AAA AAA ++ TCA  $\mathbf{T}^{\mathsf{CA}}$ Lys TTCTTCPhe GGTGGT Gly gad Arg CGC GTA GTA AGG ည္သည Ala AGA Arg CGC AAC AAC Asn Arg Val 0 CTGCTG Leu CTCCTCLeu GGA CCC GGA CCC G1yPro GAG GAG Glu AAG LysAAG CTG Leu CIGGAC GAC AGT Asp AGT AGG Arg AGG CIG Ser CTG TGC Cys  $\mathbf{T}$ GC Leu PPSS-II"
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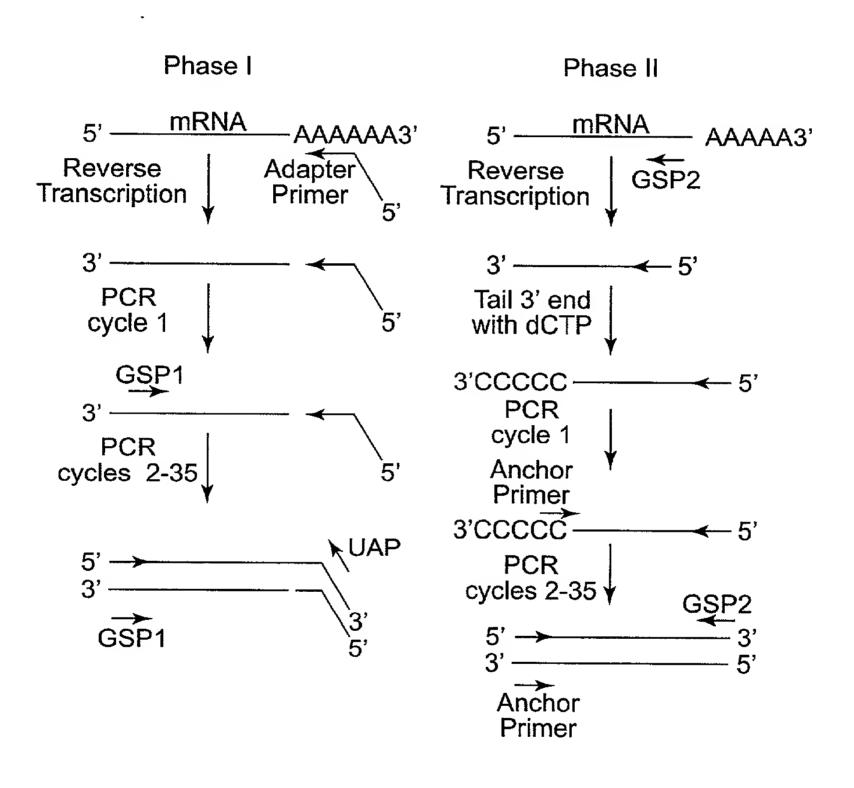


Fig. 4

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Nulceotide Identity

54.5	52.5	72.5	56.8	72.2	78.3	84.3	92.2	95.5	98.7	H
52.8	49.8	69.4	26.8	2.79	75.5	84.3	91.2	94.4	M	100
51.1	48.0	69.4	55.3	68.4	62.6	84.3	92.4	В	98.5	98.5
51.5	49.5	6.79	53.8	67.7	74.5	84.1	Υ	97.0	96.2	97.7
52.0	50.0	68.9	55.1	68.7	75.0	0	87.9	9.88	6.06	91.7
51.0	50.0	67.7	58.8	2.59	184	8.87	78.0	78.8	8.87	87.1
52.3	44.9	0.77	60.1	149.	64.4	63.6	62.9	63.6	62.9	68.2
43.7	39.1	58.1	JV	52.3	49.2	46.2	45.5	46.2	46.2	47.7
49.0	48.2		52.3	73.5	70.5	66.7	65.2	2.99	64.4	73.5
87.8	<u>-</u>	43.9	35.6	40.9	44.7	38.6	38.6	38.6	38.6	42.4
	84.1	45.5	35.6	44.7	47.7	42.4	42.4	42.4	42.4	45.5

Amino Acid Identity

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Preprosomatostatin
from
Jerived
Peptides 1
of
Seguences
Acid
Amino
of
Comparison

	-20	-10	<del> </del> +	+10 +14	
Rainbow troutb	i				
Hadfishd	1	ւ * *	GCKNFF	TFTS	ID NO:
	Д	очнеррск	KAGCKNFF	TFTS	ID NO:
Tornedod			GCKNFF	TFTS	ID NO:
Ratfishd			GCKNFF	TFTS	ID NO:
Bowfind			GCKSFF	TFTS	ID NO:
Sturgeond	SAN	* * PALAPRE	GCKNFF	TFTS	ID NO:
Catfishd			PCKNFF	TFTS	ID NO:
Salmond	-	,	GCKNFF	TFTS	ID NO:
AnglerfiehC			GCKNFF	TFTS	ID NO:
	A A S	GGPLLAPRE	GCKNFF	TFTS	ID NO:
Flounderd			AGCKNFFW	KTFTSC	ID NO:
Sculpind			GCKNFY	GFTS	ID NO:
Frood			GCKNFY	GFTS	ID NO:
Salamanderd			GCKNFF	T F T	ID NO:
Allicatord			GCKNFF	TFTS	ID NO:
Pideond			GCKNFF	TFTS	ID NO:
Ovined	1		AGCKNFF	TFTS	ID NO:
	S A S	SNPAMAPRE	GCKNFF	T F T S	SEQ ID NO: 32

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---MSSSPIRITALIALIZATIONS AND TOTAL CONTROL OF THE AND LAELLLSDLLQGENEALEEENFPLAEGGPEDAHADLERAASG-GPLLAPRERKAGCKNFFWKTFTSC LADLLS-ELVQAENEALEPEDLSRAVE-KDEVRLELERAAG---PMLAPRERKAGCKNFFWKTFTSC LAELLS-EPSQTDNEALESDDLPRGAE-QDEVRLELERSANS-SPALAPRERKAGCKNFFWKTFTSC LAELLS-EPSQTENEALESEDLSRGAE-QDEVRLELERSANS-NPALAPRERKAGCKNFFWKTFTSC LAELLS-EPSQTENDALEPEDLPQAAE-QDEMRLELQRSANS-NPAMAPRERKAGCKNFFWKTFTSC VEKLLSLLSIPEMEMR - - EKGLSMAGE - SEDLRLEQERSAES - SNQLPTRVRKEGCKNFYWKGFTSC ISGLLD - GVDNSVLDGEIAPVPFDAEEPLESRLE - ERAVYNRLSQLPQRDRKAPCKNFFWKTFTSC LSGWTD - - S - RESNLVEVERNVPDPPE - P - - - - KIPPSVK - FPRLSLRERKAPCKNFFWKTFTMC LVELLS - ELAHVENEAIELDDMSHGVE - QEDVDLELERAPG - - - PVLAPRERKAGCKNFFWKTFTSC LAELLS - ELAHVENEAIELDDMSHGVE - SEGARLEMERAAG - - - PMLAPRERKAGCKNFFWKTFTSC LAELLS - EPNQTEIDALEPEDLSQAAE - QDEMRLELQRSANS - NPAMAPRERKAGCKNFFWKTFTSC FYPNCPCLR--PRKVKCP-AGAKE-DLR--VELERSVGN-PNNLPPRERKAGCKNFYWKGFTSC FYPNCPCLRWRPRKVKGPQLKAKE-DL----ERSV----DNLPPRERKAGCKNFYWKGFTSC ILQW-MLSNNELTPVQVEEAPRS-----RLELVRRDN----T-VTSKPLNCMNYFWKSRTAC VEELLAQMSLPEATFQREAEDASMATE-G---RMNLERSVDS-TNNLPPRERKAGCKNFYWKGFTSC --HVVLNSALEEARNVPFGEEVPERLT (continued) LPE \_ -- -- M. MKMV GFIII FRII CFII AFII GFII TRI AFI GFI C C C C R R B H

KVCRIHCALALLGLALAICSQGAASQP-RVSQIHCALALLGLALAICSQGAASQP-

-M

TRII

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- EPNQTENDALEPEDLSQAAE - QDEMRLELQRSANS - NPAMAPRERKAGCKNFFWKTFTSC

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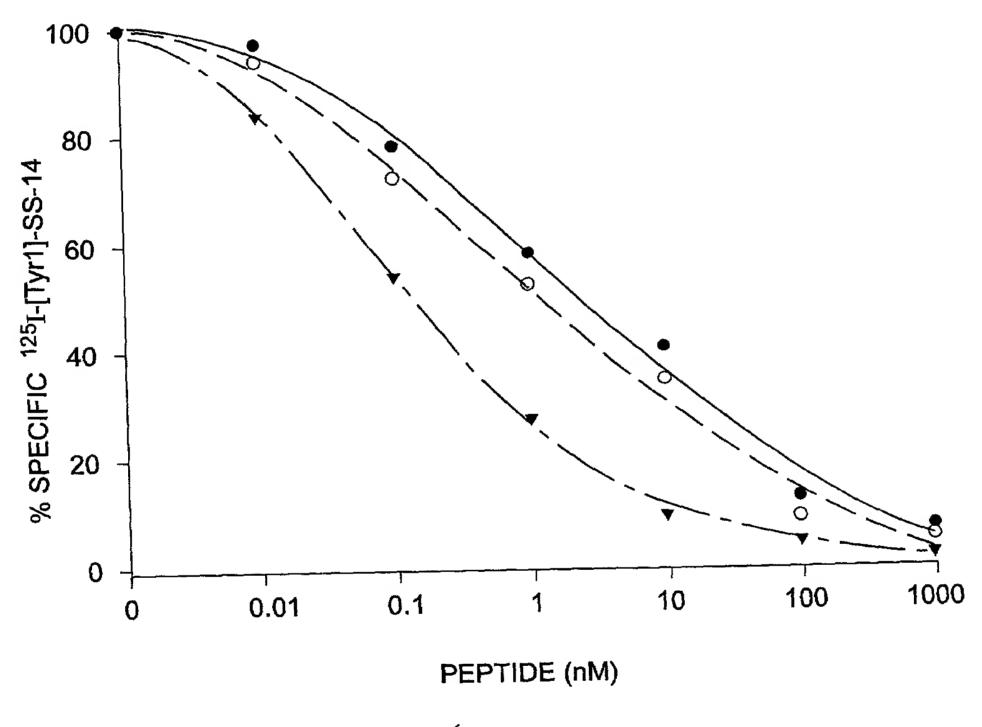


Fig. 8